

CLAIMS

1. A device for flowing or pressure treatment of textiles, nonwovens, tissue or paper comprising a treatment agent which is gaseous or liquid in the device, and is optionally also circulated, comprising a permeable drum having bottoms at the front and located under an induced draught, which serves as a transporting and supporting element for the material and which is covered for this purpose with a screen-shaped coating on its circumference, wherein sheet-metal strips extend straight without bending from one bottom to another between the bottoms of the drum to form the drum jacket, their width expansion extending substantially in the radial direction, and sheet-metal rings held on the sheet-metal strips are arranged between the sheet-metal strips, distributed uniformly over the length of the drum, wherein sheet-metal strips and sheet-metal rings can be pushed into one another and for this purpose both the sheet-metal strips and the sheet-metal rings are provided with radially directed insertion slots, characterised in that the free flanks (25', 25"; 26', 26") of the insertion slots (25, 26) of the sheet-metal strips (19, 41) and of the sheet-metal ring (18) are fixedly interconnected by means of at least one additional connecting plate (27, 31) in each case.
2. The device according to claim 1, characterised in that for connecting the flanges (26', 26") of the slots (26) of the sheet-metal strips (19, 41), the associated sheet-metal ring (18) is provided with an opening (29) through which at least one connecting plate (27) can be pushed for mechanical connection of the neighbouring sheet-metal strip flanges (26', 26").

3. The device according to claim 1, characterised in that for connecting the flanges (25', 25") of the slots (25) of the sheet-metal ring (18), the associated sheet-metal strip (19, 41) is provided with an opening (28) through which at least one connecting plate (31) can be pushed for mechanical connection of the neighbouring sheet-metal ring flanges (25', 25").
4. The device according to claims 1-3, characterised in that a connecting plate (27, 31) is arranged on both sides of the sheet-metal ring (18) or the sheet-metal strip (19, 41) at the height of the respective slot (25, 26).
5. The device according to claims 1-4, characterised in that the respective connecting plate (27, 31) is affixed with screws (30, 32) and/or rivets (33) to the associated flanges.
6. The device according to claim 5, characterised in that the screw (32) is provided with an eccentric (32') which can brace the connecting plate (31) with respect to the flanges (25', 25") to be joined.
7. The device according to any one of claims 1-6, characterised in that the sheet-metal rings (18) are provided with the insertion slots (25) on their outer side (radially outwards) and are provided with the connecting plates (31) on their radial outer side.
8. The device according to any one of claims 1-7, characterised in that the sheet-metal strips (19, 41) extend from bottom to bottom without slots on their outer side and are provided with the connecting plates (27) on their radial inner side.

9. The device according to any one of claims 1-8, characterised in that the insertion slots (25, 26) are the same distance apart.
10. The device according to any one of claims 1-9, characterised in that the width of the insertion slots (25, 26) only allows the sheet-metal strips (19, 41) to be pushed into the sheet-metal rings (18) free from play.
11. The device according to any one of claims 1-10, characterised in that the sheet-metal strips (19, 41) have a greater radial height than the sheet-metal rings (18) and project radially outwards with respect to the sheet-metal rings (18) whereby the screen-shaped coating (12) is only supported on the sheet-metal strips (19, 41) which extend from one bottom to the other without slots.
12. The device according to any one of claims 1-11, characterised in that the radial depth of the insertion slots (25, 26) in the sheet-metal strips (19, 41) and sheet-metal rings (18) is of different lengths and specifically is small in the sheet-metal strips (19, 41) and greater in the sheet-metal rings (18).
13. The device according to any one of claims 1-13, characterised in that the sheet-metal strips (19, 41) and rings (18) intersect at right angles in the sheet-metal drum (11).
14. The device according to any one of claims 1-13, characterised in that the radially inner edges of the sheet-metal strips (19, 41) and rings (18) end at the same height.

15. The device according to any one of the preceding claims, characterised in that the sheet-metal strips are formed of a curved sheet whose curved edge is arranged radially outwards in the drum structure.
16. The device according to claim 15, characterised in that the sheet-metal strips (41) are formed from a sheet curved such that the two flanges (39, 40) lie fixedly on one another bent through  $180^\circ$  with respect to one another, and the two flanges (39, 40) together form the radially outwardly (20') rounded sheet-metal strip (41) as a result of the bending.
17. The device according to any one of the preceding claims, characterised in that an additional sheet-metal drum provided with openings like a perforated screen drum (34) is arranged radially inwards directly underneath the inner edges of the sheet-metal strip structure (11) parallel over the entire length of the drum (5) so that the jacket of the drum (5) now consists of a radially outwardly arranged strip-shaped sheet-metal strip structure (11) which has been screwed together, comprising wire gauze (12) and an additional sheet-metal drum (34) on the inside.
18. The device according to claim 17, characterised in that the square-shaped sheet-metal structure (11) is screwed to the sheet-metal drum (34) over its surface.
19. The device according to claim 18, characterised in that one of two flanges of rectangular metal clips (37) is either screwed to a sheet-metal strip (19, 41) or a sheet-metal ring (18) and the other flange is screwed to the sheet-metal drum (34).
20. The device according to claim 19, characterised in that the flange of the metal clips (37) screwed to the

sheet-metal drum (34) is provided with aligned holes (38) according to the perforation of the screen drum (34).

21. The device according to claim 19 or 20, characterised in that the screw head (35) of the screw acting on the sheet-metal drum (34) and connected to the angle (37) is recessed in the sheet metal of the screen drum (34) (Fig. 11).